## EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER

05222361

PUBLICATION DATE

31-08-93

APPLICATION DATE

14-02-92

APPLICATION NUMBER

04028495

APPLICANT:

MITSUBISHI KASEI CORP;

INVENTOR:

SATO YOSHIHARU;

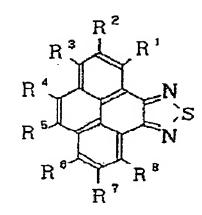
INT.CL.

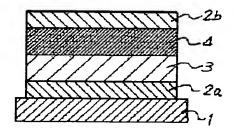
C09K 11/06 H05B 33/14

TITLE

ORGANIC ELECTROLUMINESCENT

**ELEMENT** 





ABSTRACT :

PURPOSE: To obtain the title element which can provide a luminescence of a sufficient luminance at a low driving voltage and can retain the initial luminescent characteristics even after a long-term storage by adding a specified fluorescent color to an organic hole transport layer and an organic electron transport layer.

CONSTITUTION: A 1,2,5-thiadiazolopyrene derivative of the formula (wherein R¹ to R³ are each hydrogen, halogen, cyano, nitro, carboxyl or an alkyl, aralkyl, alkenyl, amino, amide, alkoxyl, alkoxycarbonyl, alkoxysulfonyl, aromatic hydrocarbon or heterocyclic group which may have a substituent) is prepared. When an organic electroluminescent element is produced by successively laying a conductive layer 2a, an organic hole transport layer 3 containing an organic hole transport compound, an organic electron transport layer 4 containing an organic electron transport compound and a conductive layer 2b on a substrate 1, the compound of formula I is added as a dopant to the hole transport layer 3 and/or the electron transport layer 4.

COPYRIGHT: (C)1993,JPO&Japio

